

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE**

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DATE 22 December 2016

TO: The Record

FROM: U.S. Army Corps of Engineers
26 Federal Plaza, ATTN: CENAN-OP-ST
New York, NY 10278-0090

RIVER/HARBOR NAME AND STATE:
Great South Bay, New York

**MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD**

NAME OF CHANNEL	DATE OF SURVEY	AUTHORIZED PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (nmiles)	DEPTH (feet)			
GREAT SOUTH BAY, NEW YORK							
Reach A: Begins at mile 0 close to the Robert Mosses Causeway Bridge at the Fire Island Inlet, and ends approximately 5 miles east at Fire Islands.	File #99 Sheets 3-9 of 27; 13-25 Aug, 2016	200	4.0	10	9.1	6.7	1.8
Reach B: Begins at Fire Islands at the approximate location of mile 5, and ends north east at the approximate location of mile 14 at Brown Point.	File #99 Sheets 9-23 of 27; 13-25 Aug, 2016	200 - 475	7.6	10	8.7	11.0	9.9
Reach C: Begins at Brown Point, located approximately at mile 14, and ends north east at the intersection with the Patchogue River.	File #99 Sheets 23-27 of 27; 13-25 Aug, 2016	200	2.2	10	9.5	9.6	9.7

REMARKS:

- All reported depths are relative to the Mean Lower Low Water (MLLW) datum.
- Channel reach lengths are in nautical miles.

GREAT SOUTH BAY

- **Reach A:**
 - Intermittent shoaling in the Left Outside Quarter and Middle Half of the channel begins approximately 2,350 feet seaward of GREEN "CB", and continues landward forming a continuous shoal that stretches from the Middle Half to the Right Outside Quarter of the channel for approximately 920 feet. The controlling depth of -1.8 feet MLLW exists within this shoal in the Right Outside Quarter. Intermittent shoaling in the Middle Half and Right Outside Quarter of the channel begins approximately 1,250 feet seaward of GREEN "CB" and extends landward approximately 175 feet.
 - A shoal in the Left Outside Quarter and Middle Half of the channel begins approximately 1,675 feet seaward of GREEN BUOY #5 and extends landward approximately 40 feet.
 - Intermittent shoaling across the entire channel begins approximately 1,140 feet landward of GREEN BUOY #5 and extends landward approximately 1,025 feet.
 - Shoaling exists in the Right Outside Quarter beginning approximately 405 feet seaward of GREEN "EW", and continues landward approximately 100 feet, extending into the Middle Half of the channel.
 - Shoaling exists in the Right Outside Quarter beginning approximately 2,260 feet seaward of RED BUOY #8 and continues landward approximately 60 feet, having a maximum width of approximately 10 feet.
 - Shoaling exists in the Right Outside Quarter beginning approximately 530 feet seaward of RED BUOY #8 and continues landward approximately 150 feet, spreading into the Middle Half of the channel.

- **Reach B:**

- A shoal exists on the channel's toe in the Right Outside Quarter beginning approximately 65 feet seaward of RED NUN #14 and continues landward approximately 10 feet.
- A shoal in the Left Outside Quarter begins approximately 100 feet seaward of GREEN BUOY #19 and continues landward approximately 165 feet.
- A shoal in the Left Outside Quarter begins approximately 1,275 feet seaward of GREEN CAN #25 and continues landward approximately 190 feet.

- **Reach C:**

- Shoaling across the width of the channel begins approximately 2,825 feet seaward of GREEN BUOY #35 and continues landward approximately 2,775 feet. The shoaling within this area is intermittent along the seaward and landward extents and continuous in between.
- A shoal in the Left Outside Quarter of the channel begins approximately 755 feet landward of GREEN BUOY #35 and continues landward approximately 125 feet.
- A shoal in the Left Outside Quarter and Middle Half begins approximately 1,750 feet landward of GREEN BUOY #35 and continues landward approximately 100 feet.
- Shoaling across much of the width of the channel begins approximately 2,305 feet landward of GREEN BUOY #35 and continues landward approximately 770 feet. The shoaling within this area is intermittent along the Middle Half and Right Outside Quarters and more continuous along the Left Outside Quarter of the channel.
- Intermittent shoaling across much of the width of the channel begins approximately 3,345 feet landward of GREEN BUOY #35 and continues landward approximately 830 feet near the end of the reach.